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CAS REGISTRY
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=> s (alpha-1-antitrypsin) (4A) (plasma or serum)
L1 3833 (ALPHA-1-ANTITRYPSIN) (4A) (PLASMA OR SERUM)

=> s L1 (6A) (human or sapiens)
L2 624 L1 (6A) (HUMAN OR SAPIENS)

=> s ((alpha-1-antitrypsin) or AAT or A1AT) (P) (recombinant or vector or plasmid
or transfection or coli or yeast)
L3 2492 ((ALPHA-1-ANTITRYPSIN) OR AAT OR A1AT) (P) (RECOMBINANT OR VECTO
R OR PLASMID OR TRANSFECTION OR COLI OR YEAST)

=> s ((alpha-1-antitrypsin) or AAT or A1AT) (P) (glycosylation or deglycosylated or
endoglycosidase H)
L4 460 ((ALPHA-1-ANTITRYPSIN) OR AAT OR A1AT) (P) (GLYCOSYLATION OR
DEGLYCOSYLATED OR ENDOGLYCOSIDASE H)

=> s L2 and L3 and L4
L5 5 L2 AND L3 AND L4

=> s L5 and (lyophilized or lyophilization or lyophilizing or (freeze dried) or
(speed vac) or (dried))
L6 0 L5 AND (LYOPHILIZED OR LYOPHILIZATION OR LYOPHILIZING OR (FREEZ
E DRIED) OR (SPEED VAC) OR (DRIED))

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=> s L2 and L4 and (lyophilized or lyophilization or lyophilizing or (freeze dried)
or (speed vac) or (dried))
L7 0 L2 AND L4 AND (LYOPHILIZED OR LYOPHILIZATION OR LYOPHILIZING
OR (FREEZE DRIED) OR (SPEED VAC) OR (DRIED))

=> s L2 and (lyophilized or lyophilization or lyophilizing or (freeze dried) or
(speed vac) or (dried))
L8 5 L2 AND (LYOPHILIZED OR LYOPHILIZATION OR LYOPHILIZING OR (FREEZ
E DRIED) OR (SPEED VAC) OR (DRIED))

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L9 5 DUPLICATE REMOVE L8 (0 DUPLICATES REMOVED)

=> d L9 1-5 bib ab

L9 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1990:473455 CAPLUS
DN 113:73455
OREF 113:12325a,12328a
TI Production of alpha1-proteinase inhibitor (human)
AU Hein, R. H.; Van Beveren, S. M.; Shearer, M. A.; Coan, M. H.; Brockway, W.
J.
CS Cutter Biol., Miles Inc., Berkeley, CA, USA

SO European Respiratory Journal (1990), 3(Suppl. 9), 16s-20s
 CODEN: ERJOEI; ISSN: 0903-1936
 DT Journal
 LA English
 AB A method for large scale isolation of α 1-proteinase inhibitor
 (α 1-PI) is described. This method employs waste Cohn fraction IV-1
 as the starting material and involves fractional precipitation with
 polyethylene glycol followed by ion exchange chromatog. on DEAE-Sepharose. The process
 also incorporates a ten hour heat-treatment step at 60° to reduce
 or eliminate the risk of transmission of viral disease. The final
 product, having a purity of .apprx.60%, is freeze-dried
 . This preparation behaves almost identically to the α 1-PI in plasma and
 is suitable for replacement therapy in hereditary emphysema.
 OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1989:219067 CAPLUS
 DN 110:219067
 OREF 110:36259a,36262a
 TI Chromatographic purification of .alpha.1-
 antitrypsin from human plasma cryoprecipitate
 fractions for medicaments
 IN Burnouf, Thierry
 PA Centre Regional de Transfusion Sanguine de Lille, Fr.
 SO Fr. Demande, 8 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2610633	A1	19880812	FR 1987-1403	19870205
	FR 2610633	B1	19920918		
	EP 282363	A2	19880914	EP 1988-400235	19880202
	EP 282363	A3	19881005		
	EP 282363	B1	19920909		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 80309	T	19920915	AT 1988-400235	19880202
	ES 2051871	T3	19940701	ES 1988-400235	19880202
	JP 01056699	A	19890303	JP 1988-26406	19880205
PRAI	FR 1987-1403	A	19870205		
	EP 1988-400235	A	19880202		

AB A concentrate of α 1-antitrypsin (AAT) is prepared from human plasma by
 chromatog. of cryoppt. fractions A or A + I [Kistler and Nitschmann
 (1962)] to obtain an AAT solution of \geq 80%. Human plasma from
 cryopptn. was precipitated with EtOH at 10% and pH 7.4 and the supernatant was
 precipitated with EtOH at 19%, pH 5.85, and 5°. EtOH was removed from the
 supernatant by diafiltration and the solution was diluted to .apprx.15 g
 protein/L and chromatographed on DEAE-Sepharose CL-6B Fast Flow
 equilibrated with 0.15M NaOAc pH 5.2-6. The AAT-rich fraction was
 adjusted to pH 6.5 with glycine, concentrated, dialyzed, and further purified
 on Sephacryl S-200. Viral inactivation was affected by heating to 60°
 for 10 h in the presence of sorbitol (65 weight%; stabilizer). After
 diafiltration to remove the sorbitol and adjusting the protein concentration to
 .apprx.25 g/L, the solution was placed in ampules and lyophilized.
 The AAT had trypsin and elastase inhibiting activities of native AAT.

OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1988:607352 CAPLUS
 DN 109:207352
 OREF 109:34215a,34218a
 TI Purification of alpha-1-proteinase inhibitor. Preparation and properties
 of a therapeutic concentrate
 AU Coan, Michael H.
 CS Cutter Biol., Miles Inc., Berkeley, CA, 94701, USA
 SO American Journal of Medicine (1988), 84(6A), 32-6
 CODEN: AJMEAZ; ISSN: 0002-9343
 DT Journal
 LA English
 AB Human α 1-proteinase inhibitor (α 1-antitrypsin) (I) was prepared
 as a lyophilized concentrate and was tested clin. in humans with I
 deficiency. I protein was purified from blood plasma (Cohn fraction IV-1)
 by precipitation and ion-exchange chromatog. The resulting product behaved
 almost identically to I in plasma, showing that the process is gentle and
 nondenaturing. To lower the risk of transmission of disease, the product
 was heat treated. Although this resulted in some aggregation of protein,
 no new antigenic sites were created. Biol., immunol., and physiol.
 studies showed that I thus prepared behaves normally.

L9 ANSWER 4 OF 5 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN
 AN 1976:236089 BIOSIS
 DN PREV197662066089; BA62:66089
 TI HUMAN SKIN PROTEASES SEPARATION AND CHARACTERIZATION OF 2 ALKALINE
 PROTEASES 1 SPLITTING TRYPSIN AND THE OTHER CHYMOTRYPSIN SUBSTRATES.
 AU FRAKI J E; HOPSU-HAVU V K
 SO Archiv fuer Dermatologische Forschung, (1975) Vol. 253, No. 3, pp.
 261-276.
 CODEN: ADMFAU. ISSN: 0003-9187.
 DT Article
 FS BA
 LA Unavailable
 AB Two alkaline proteases, one splitting preferentially the substrates of
 chymotrypsin (N-acetyl-L-tyrosine ethyl ester, ATEE) and the other those
 of trypsin (N- α -benzoyl-L-arginine ethyl ester, BAEE), were
 separated and partially purified by chromatography from human skin extract
 made in a buffer containing 1.07 mol/l KCl. The proteins soluble in
 dilute buffer were removed by a prior extraction. The enzymes could be
 separated effectively only in the presence of KCl at a high concentration
 since large molecular size aggregates or polymers were formed in solutions
 of low ionic strength. In the presence of 2 mol/l KCl the molecular size
 of the BAEE-hydrolyzing enzyme was 120,000 and that of the
 ATEE-hydrolyzing enzyme 30,000. The ATEE-hydrolyzing enzyme was purified
 by Sephadex G-100 gel filtration and DEAE-cellulose chromatography about
 250-fold. It also hydrolyzed esters of tryptophan and phenylalanine as
 well as casein with optimum pH 7.8-8.2. The enzyme was inhibited
 effectively by LBTI [trypsin inhibitor from lima bean, type II.L.], SBTI [
 lyophilized trypsin inhibitor from soybean, type Is] and partially
 by Trasylol, TPCK [L-1-tosylamide-2-phenyl-ethylchloro-methylketone] and
 TLCK [N- α -p-toysl-L-lysine-chloro methylketone·HCl], but not
 by E-600 [diethyl-p-nitrophenyl phosphate] and SH-modifiers. The
 hydrolysis of ATEE was doubled in the presence of 1 mol/l KCl, NaCl, KBr
 or NaBr, but that of casein was inhibited to some extent. Human
 serum and .alpha.-1-antitrypsin
 inhibited this enzyme but not C.hivin.1-inactivator.
 α -2-Macroglobulin did not protect it from inhibition by SBTI. The
 BAEE-hydrolyzing enzyme was purified by Sephadex G-100 gel filtration and

hydroxylapatite chromatography about 30-fold. It also split other esters of substituted basic amino acids as well as BAPA [N- α -benzoyl-DL-arginine-p-nitroanilide·HCl] and histone proteins with optimum pH 7.5-8.2. It was inhibited by Trasylol and TLCK, but not by LBTI, SBTI, OMTI, [trypsin inhibitor from ovomucoid, type II] TPCK, E-600, SH-modifiers, human serum, C.hivin.1-inactivator or α -1-antitrypsin. Neither of these enzymes is exactly similar to any of the enzymes already separated from human tissues or fluids.

L9 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1971:417858 CAPLUS

DN 75:17858

OREF 75:2849a,2852a

TI Bacterial inactivation of human serum alpha-1 antitrypsin

AU Moskowitz, Roland W.; Heinrich, Gerhard

CS Sch. Med., Case West. Reserve Univ., Cleveland, OH, USA

SO Journal of Laboratory and Clinical Medicine (1971), 77(5), 777-85

CODEN: JLCMAK; ISSN: 0022-2143

DT Journal

LA English

AB The study demonstrates loss of human serum alpha-1 antitrypsin activity in the presence of cultures of certain gram-neg. bacterial organisms, as well as by exposure to lyophilized culture supernate prepared from *Pseudomonas aeruginosa*. Antitrypsin inactivation was seen to develop within 11 hr after inoculation of *P. aeruginosa* into broth. Upon incubation of lyophilized antitrypsin inactivator (Al) with antitrypsin at 37°, inactivation of antitrypsin increased as a function of time. Al was stable at 56° and at pH 5 through 8. Soybean trypsin inhibitor was not inactivated by 4-fold the amount of Al required to inactivate an equivalent number of moles of alpha-1 antitrypsin. Identical peaks were eluted with Sephadex G-75 column chromatog. when Al and antitrypsin were fractionated sep. or after prior preincubation, supporting an enzymic, rather than binding, action of Al on antitrypsin. Al may play a role in inflammatory mechanisms involving human serum alpha-1 antitrypsin.

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

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=> s l2 and (glycosylation or deglycosylated or endoglycosidase H)

L10 19 L2 AND (GLYCOSYLATION OR DEGLYCOSYLATED OR ENDOGLYCOSIDASE H)

=>

=> s l10 and (lyophilized or lyophilization or lyophilizing or (freeze dried) or (speed vac) or (dried))

L11 0 L10 AND (LYOPHILIZED OR LYOPHILIZATION OR LYOPHILIZING OR (FREEZE DRIED) OR (SPEED VAC) OR (DRIED))